

AMENDMENTS

Please amend the claims as follows:

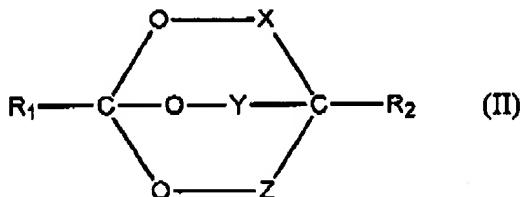
1. A coating composition comprising a compound comprising at least one BOE bicyclo-orthoester group having latent hydroxyl groups and at least one ether hydroxyl reactive functional group represented by the following formula I



wherein

x and y are independently selected from 1 to 10;

A has the structure according to the following formula II



wherein

X and Z are independently from each other selected from linear or branched alk(en)ylene groups with 1-4 carbon atoms optionally containing an oxygen or a nitrogen atom;

Y is nothing or is selected independently of X and Z from linear or branched alk(en)ylene groups with 1-4 carbon atoms optionally containing an oxygen or a nitrogen atom;

one of R<sub>1</sub> and R<sub>2</sub> is selected from the group of a monovalent radicals of comprising hydrogen, hydroxyl, or alk(en)yl groups having comprising 1-30 carbon atoms which may be are linear or branched and may optionally contains one or more hetero atoms and groups selected from the group of oxygen atoms, nitrogen atoms, sulphur atoms, and/or ester groups;

the other of R<sub>1</sub> and R<sub>2</sub> is selected from the group of a divalent radicals with

~~comprising alk(en)yen groups having 1-10 carbon atoms which groups may be are linear or branched and optionally contain one or more hetero atoms and groups selected from the group of oxygen atoms, nitrogen atoms, sulphur atoms, and/or ester groups;~~

~~B is selected from the group of a divalent radicals comprising of aromatic, aliphatic, cycloaliphatic, and araliphatic hydrocarbon groups having 1-40 carbon atoms which groups may be are linear or branched and optionally contain one or more hetero atoms and groups selected from the group of oxygen atoms, nitrogen atoms, sulphur atoms, phosphorus atoms, sulphone groups, sulphonyl groups, amine groups, amide groups, urea groups, urethane groups, and/or ester groups;~~

~~-ester groups;~~

~~ether groups;~~

~~amide groups;~~

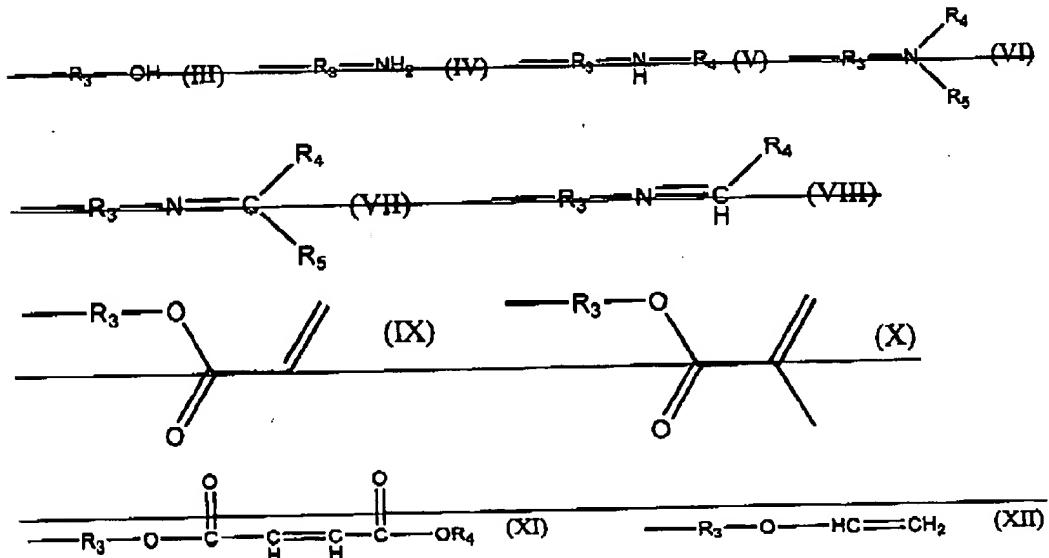
~~thioester groups;~~

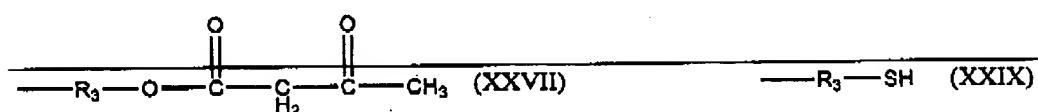
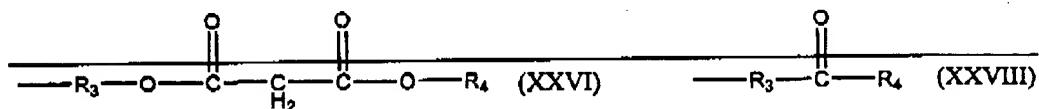
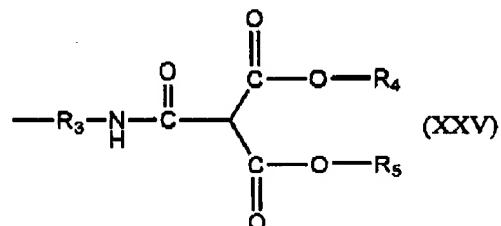
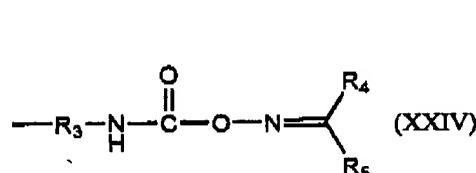
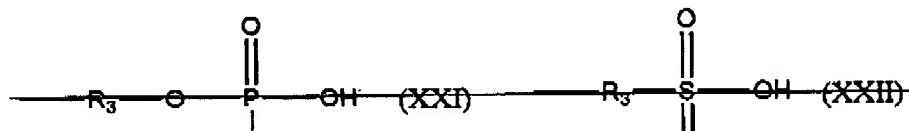
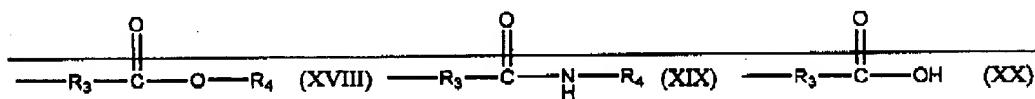
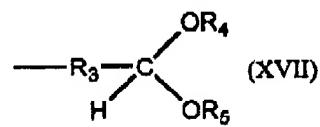
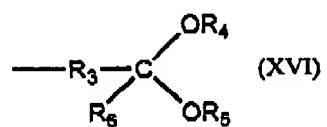
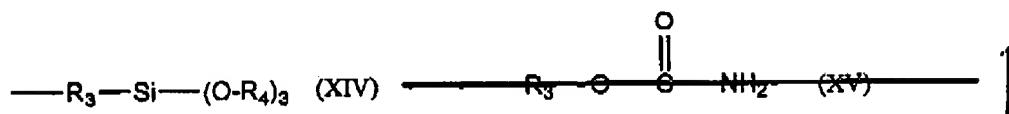
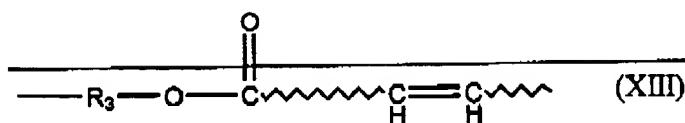
~~thioamide groups;~~

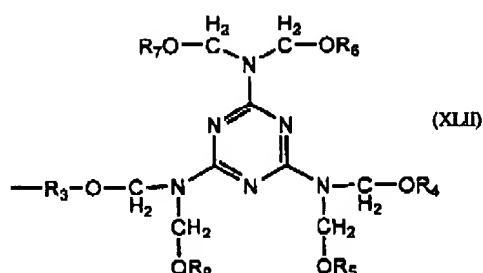
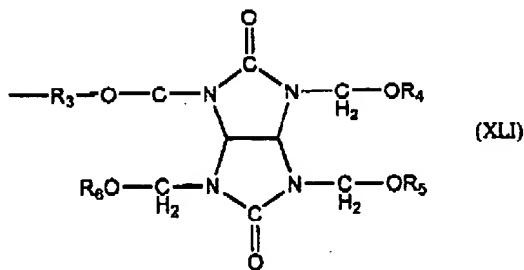
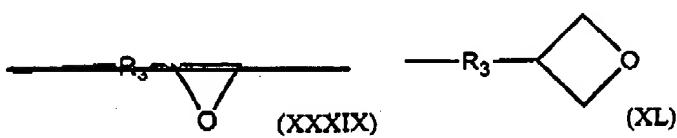
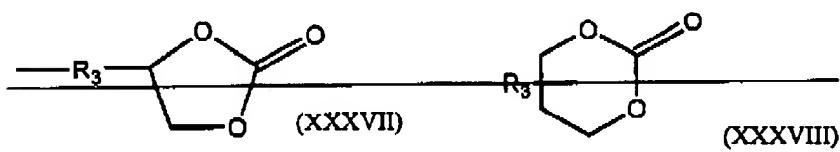
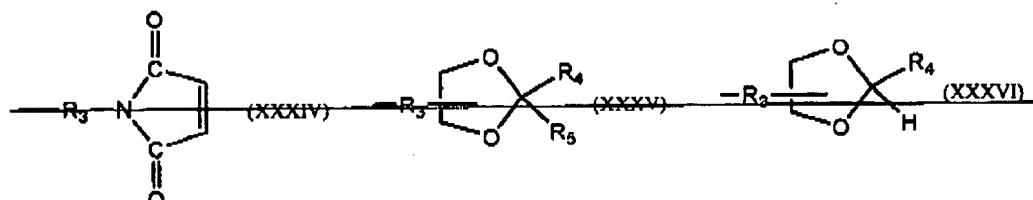
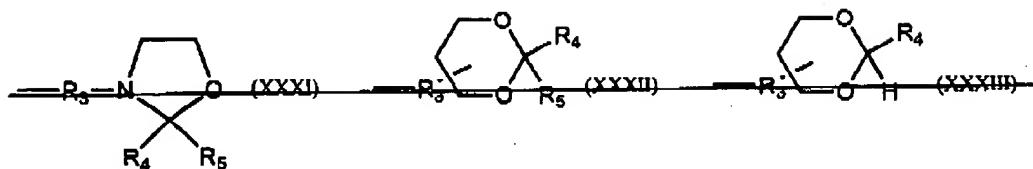
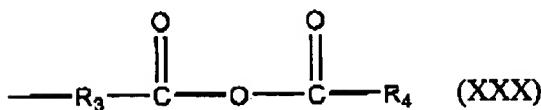
~~urethane groups; and~~

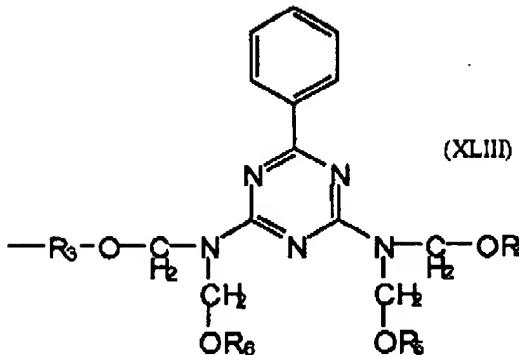
~~urea groups;~~

*C11 Unw*  
C is a hydroxyl reactive functional group selected from the following formulae: III-XLIII









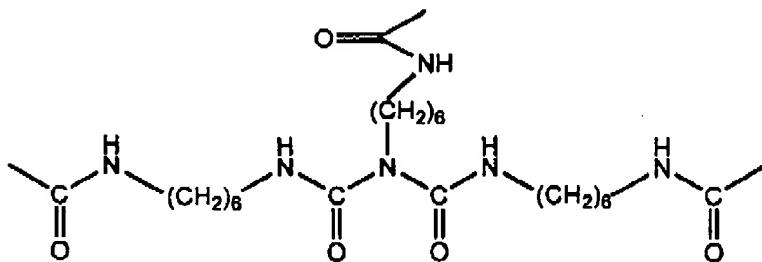
wherein  $R_3$  is selected from the group of alk(en)ylene groups having 1-10 carbon atoms which groups ~~may be~~ are linear or branched and ~~may~~ optionally contain one or more ~~groups selected from the group of~~ ether, ester, urea, urethane, amide, and/or amine groups, and  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$  are independently from each other selected from the group of alk(en)yl groups having 1-10 carbon atoms which groups ~~may be~~ are linear or branched.

*CJ CM*

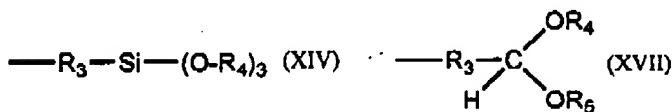
2. (Original) A coating composition according to claim 1 wherein X, Y, and Z are methylene.
3. Original) A coating composition according to claim 1 wherein one of  $R_1$  and  $R_2$  is a monovalent radical selected from the group of linear or branched alk(en)yl groups having 1-20 carbon atoms.
4. (Currently Amended April 7, 2003) A coating composition according to claim 3 wherein the monovalent radical is ~~selected from the group of methyl and~~ or ethyl.
5. (Original) A coating composition according to claim 3 wherein the other of  $R_1$  and  $R_2$  is  $-\text{O}-\text{C}_{1-10}-$ .
6. (Original) A coating composition according to claim 1 wherein B is derived from an organic polyisocyanate compound.

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7. (Original) A coating composition according to claim 6 wherein the organic polyisocyanate is the biuret of hexamethylene diisocyanate and B has the following chemical structure

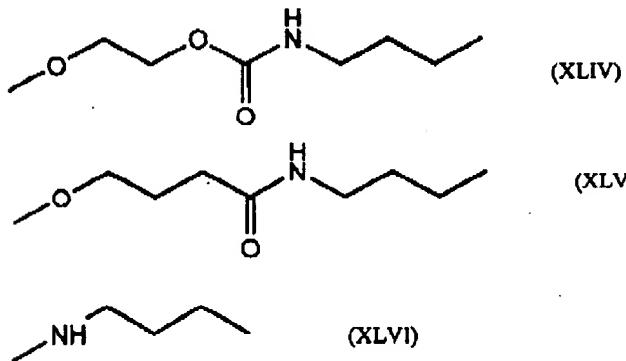


8. (Original) A coating composition according to claim 1 wherein C is selected from the formulae XIV and XVII



C  
1  
1  
wnt

9. (Original) A coating composition according to claim 8 wherein R<sub>4</sub> and R<sub>5</sub> are methyl or ethyl and R<sub>3</sub> is a group selected from the following formulae XLIV-XLVI



10. (Currently Amended April 7, 2003) A coating composition according to claim 1 wherein the coating composition comprises a second compound comprising at least two hydroxyl-reactive groups selected from the group of isocyanato, epoxy, acetal, carboxyl, anhydride, and alkoxy silane groups, or

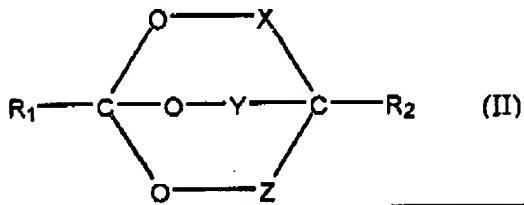
the second compound is an amino resin, comprising a compound comprising at least one bicyclo-orthoester group and at least one other functional group either 4-ethyl-1-(ethoxycarbonylmethyl)2,6,7-trioxabicyclo[2.2.2]octane or represented by the following formula I

(A)<sub>x</sub>-B-(C)<sub>y</sub> (I)

wherein

x and y are independently selected from 1 to 10;

A has the structure according to the following formula II



wherein

X and Z are independently from each other selected from linear or branched alk(en)ylene groups with 1-4 carbon atoms optionally containing an oxygen or a nitrogen atom;

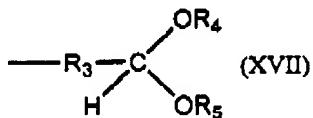
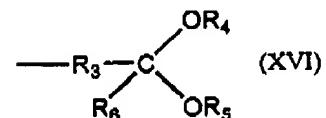
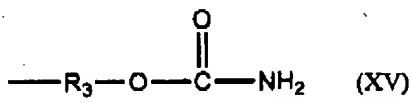
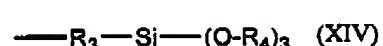
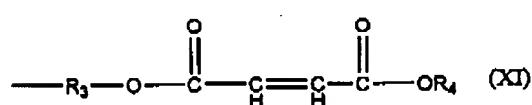
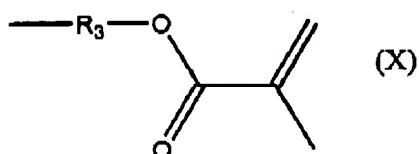
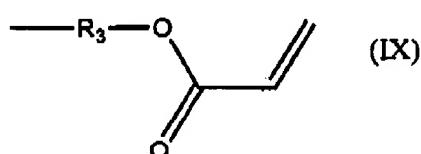
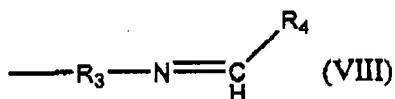
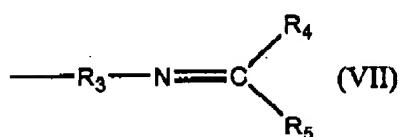
Y is nothing or is selected independently of X and Z from linear or branched alk(en)ylene groups with 1-4 carbon atoms optionally containing an oxygen or a nitrogen atom;

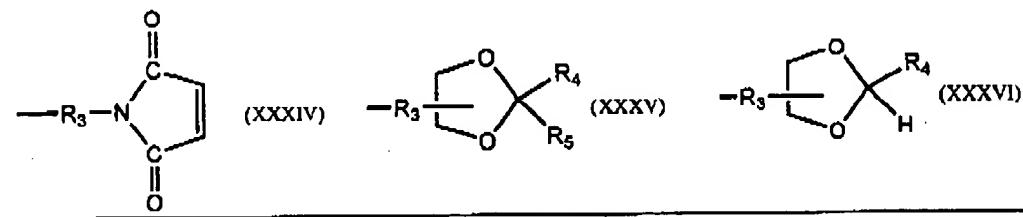
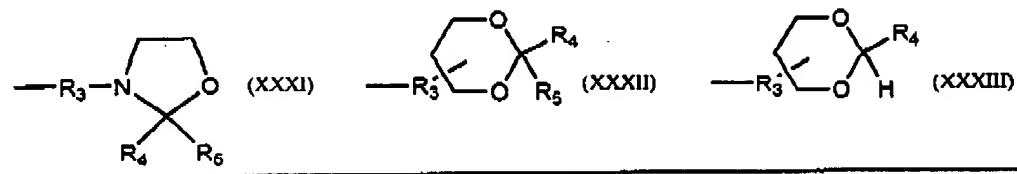
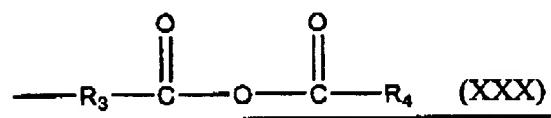
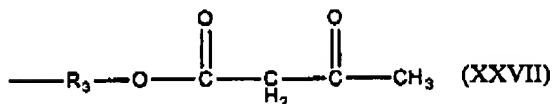
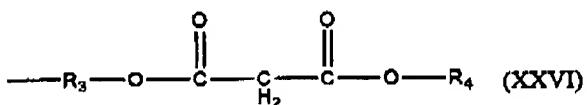
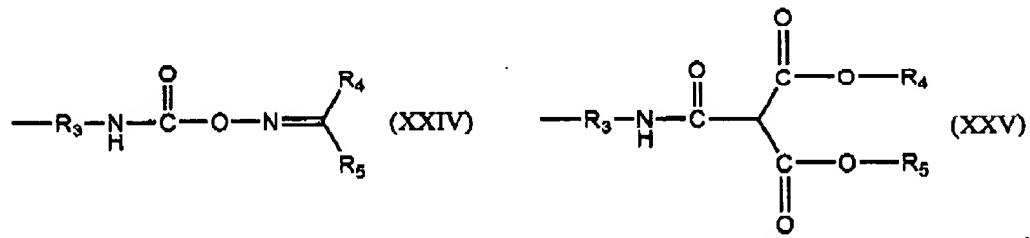
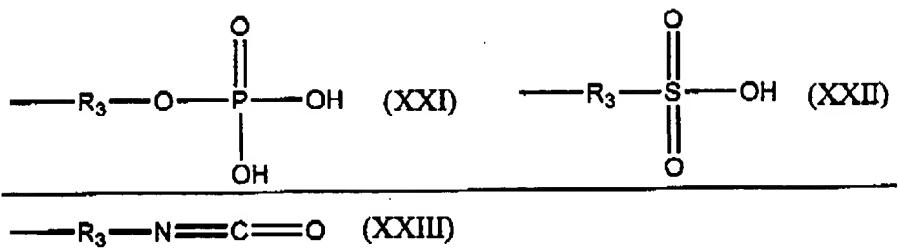
one of R<sub>1</sub> and R<sub>2</sub> is a monovalent radical of hydrogen, hydroxyl or alk(en)yl groups 1-30 carbon atoms which are linear or branched and optionally contain oxygen atoms, nitrogen atoms, sulphur atoms, and/or ester groups;

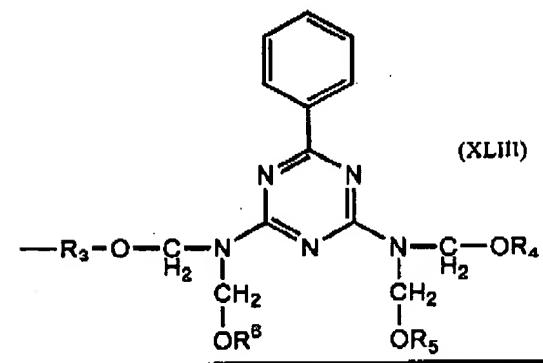
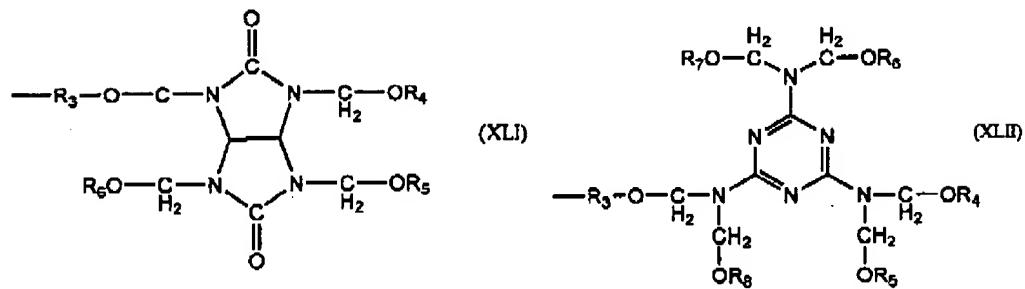
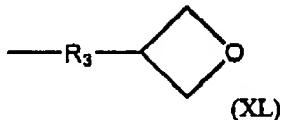
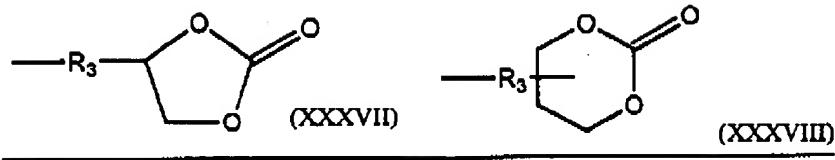
the other of R<sub>1</sub> and R<sub>2</sub> is a divalent radical with alk(en)ylene groups having 1-10 carbon atoms which groups are linear or branched and optionally contain oxygen atoms, nitrogen atoms, sulphur atoms, and/or ester groups;

B is a divalent radical of aromatic, aliphatic, cycloaliphatic, and araliphatic hydrocarbon groups having 1-40 carbon atoms which groups are linear or branched and optionally contain oxygen atoms, nitrogen atoms, sulphur atoms, phosphorus atoms, sulphone groups, sulphonyl groups, amine groups, amide groups, urea groups, urethane groups, and/or ester groups; ester groups; ether groups; amide groups; thioester groups; thioamide groups; urethane groups; and urea groups;

C is a functional group selected from the following formulae:



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wherein R<sub>3</sub> is an alk(en)ylene group having 1-10 carbon atoms which groups are linear or branched and optionally contain ether, ester, urea, urethane, amide, and/or amine groups, and R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> are independently from each other selected from alk(en)yl groups having 1-10 carbon atoms which groups are linear or branched, wherein the coating composition comprises a second

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compound comprising at least two hydroxyl reactive groups of isocyanate, epoxy, acetal, carboxyl, anhydrid , and/or alkoxy silane groups, or the second compound is an amino resin.

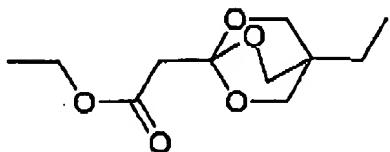
11. (Previously Amended 02/08/2002) A coating composition according to claim 10, wherein the second compound comprising at least two hydroxyl reactive groups is an aliphatic, cycloaliphatic or aromatic compound comprising at least two isocyanate groups or adducts thereof.

12.(Previously Amended 02/08/2002) A coating composition according to claim 11 wherein the second compound comprising at least two hydroxyl reactive groups is an isocyanurate.

13.(Previously Amended 02/08/2002) A process for curing a coating composition according to claim 1 wherein the latent hydroxyl groups of the bicyclo-orthoester groups are deblocked in the presence of water, optionally in the presence of a first catalyst, and reacted with the hydroxyl-reactive groups of the compound, optionally in the presence of a second catalyst.

C/S  
C/M

14.(Previously Amended 02/08/2002) A process for the preparation of a compound comprising at least one bicyclo-orthoester group and at least one other functional group according to the formula



in which a compound having at least one corresponding oxetane group is converted in the presence of a catalytic amount of dibutyl tin oxide at a temperature above 180°C.

*C11  
incell*  
Please delete pending claim 15 without prejudice.

*31a*  
Please add the following claims:

*31b*  
16. (Previously Added 02/08/2002) A coating composition according to claim 10  
wherein X, Y, and Z are methylene.

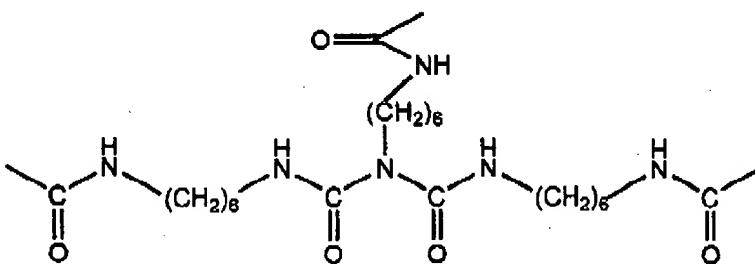
*31c*  
17. (Previously Added 02/08/2002) A coating composition according to claim 10  
wherein one of R<sub>1</sub> and R<sub>2</sub> is a monovalent radical of linear or branched alk(en)yl  
groups having 1-20 carbon atoms.

*31d*  
18. (Previously Added 02/08/2002) A coating composition according to claim 17  
wherein the monovalent radical is selected from the group of methyl and ethyl.

*31e*  
19. (Previously Added 02/08/2002) A coating composition according to claim 17  
wherein the other of R<sub>1</sub> and R<sub>2</sub> is -O-C<sub>1-10</sub>-.

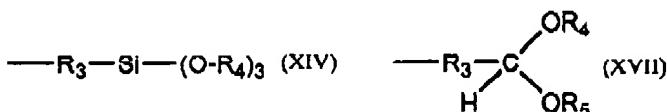
*31f*  
20. (Previously Added 02/08/2002) A coating composition according to claim 10  
wherein B is derived from an organic polyisocyanate compound.

*31g*  
21. (Previously Added 02/08/2002) A coating composition according to claim 20  
wherein the organic polyisocyanate is the biuret of hexamethylene diisocyanate  
and B has the following chemical structure



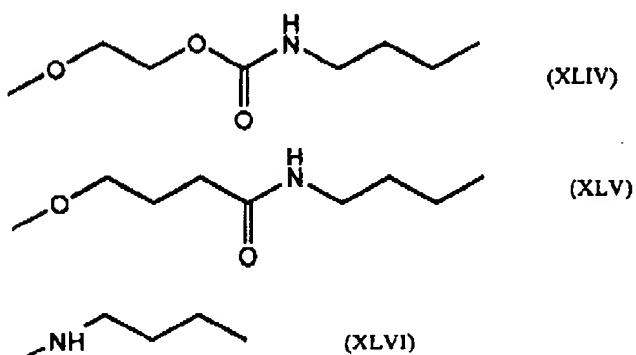
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22. (Previously Added 02/08/2002) A coating composition according to claim 10  
wherein C is selected from the formulae XIV and XVII



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23. (Previously Added 02/08/2002) A coating composition according to claim 22 wherein  $R_4$  and  $R_5$  are methyl or ethyl and  $R_3$  is a group selected from the following formulae XLIV-XLVI



C  
Cuccia

33

**24.** (Previously Added 02/08/2002) A process for curing a coating composition according to claim 10 wherein the latent hydroxyl groups of the bicyclo-orthoester groups are deblocked in the presence of water, optionally in the presence of a first catalyst, and reacted with the hydroxyl reactive groups of the first and/or second compound, optionally in the presence of a second catalyst.